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James G. Turino

Vice President Investment Banking

Prudential Securities Incorporated

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January 15, 1998

Ms. Magalie Roman Salas Secretary Federal Communications Commission 1919 M Street, N.W., Room 222 Washington, D.C. 20554

Re:

Notice of Ex Parte Communication;

Broadband PCS C and F Block Installment Payment Restructuring; WT Docket No. 97-82

Dear Ms. Salas:

On Wednesday, January 14, Michael Elling and the undersigned of Prudential Securities Inc. ("Prudential") met with David Siddall of the Commission to discuss issues in the above-referenced proceeding. The views expressed by Prudential's representatives are included in the attached material which was distributed at the meeting.

In accordance with Section 1.1206 of the Commission's rules, an original and two copies of this filing are being submitted to you today. Please direct any questions concerning this matter to me at (212) 778-2356.

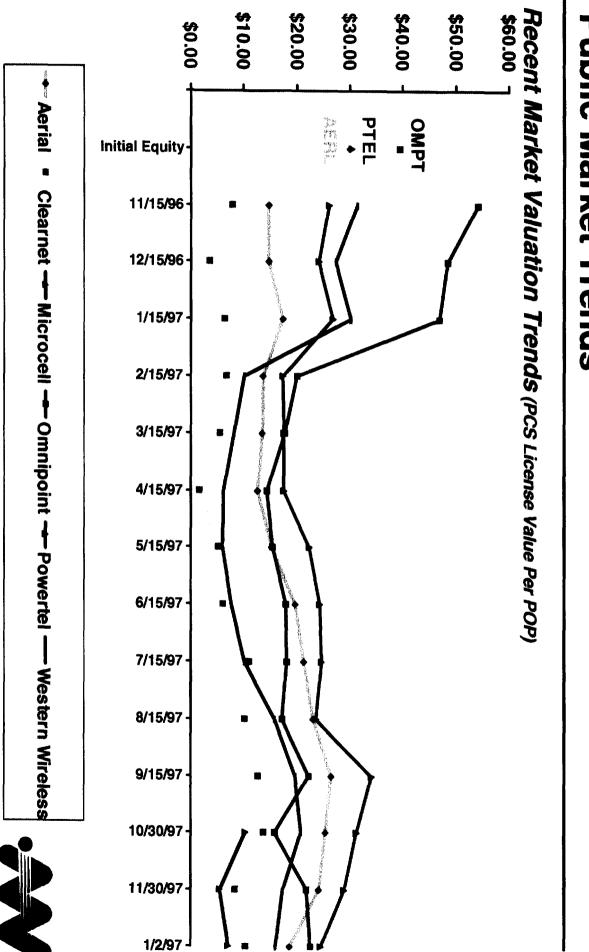
Sincerely,

Attachment

cc: w/o attach - David Siddall

No. of Copies rec'd List A B C D E

Public Market Trends





Public Market Comparable Valuations

(all figures in pro forma \$ per Absolute Net POP 1)

	Aerial Comm.	PowerTel	Omnipoint	Western Wireless
Closing Stock Price (1/2/98)	\$7.188	\$17.125	\$22.50	\$18.00
PCS Enterprise Value / POP ²	\$40.19	\$48.33	\$37.38	\$48.30
Implied PCS License Value / POP ³	\$18.70	\$27.32	\$29.93	\$28.42

¹ Absolute Net POP: 10 Mhz license = 33% of 30 Mhz license; 20 Mhz license = 66% of 30 Mhz license

² PCS Enterprise Value = Total Enterprise Value - Other Non-PCS Assets

³ Implied PCS License Value = PCS Enterprise Value - CapEx - NPV of Added Subscribers

Information on Selected PCS Companies

(all values in millions except per share and per POP values)

2-Jan-98	Aerial Comm.	Microcell		Clearnet		PowerTel		Omnipoint (OPCSE)	_	Orange plo		Western Wirele	:55	Nextel Comm	<u>n</u>
General Data															
30 MHz POPs (Year)	27.3	29.5	- 21	29.5	21	16.9	(1)	40.4	(2)	58.4	(2)	19.5	(1)	0.0	
20 MHz POPs	NM	NM		NM		5.3	(P	16.6	(1)			0.3	(D)	0.0	
10 MHz POPs	NM	NM		NM		0.9	(12)	56.3	(1)			37.56	(1)	246.0	(4)
Gross POPs (footprint)	27.3	29.5		29.5		23.2		93.4		58.4		57.4		246.0	
Heavyweight Net POPs (10 Mhz = 85%, 20 MHz = 100%)	27.3	29 5		29 5		23.0				58.4		51.7		209.1	
Weighted Net POPs (10 MHz = 50%, 20 MHz = 75%)	27.3	29.5		29.5		21.4		81.0		58.4		38.5		123.0	
Absolute Net POPs (10 MHz = 33%, 20 MHz = 66%)	27.3	29.5		29.5		20.8		70.2		58.4		32.2		82.0	
License Acquisition Costs per POP															
License Bid Amount															
(C and B Block)	\$289.2	N A		N'A		\$325.4	(d)	\$856.6		NA		\$210.7		NA	
(D-E-F Block) \$389.2	••			••		31.3		181-4				75.8		NA	
License Fee Paid per Net POP				12.0											
(C and B Block)	\$10.59	\$5.13	(a)	\$5.13	(a)	\$19.25	(b)	\$21.20		NA		\$10.81		NA	
(D.E.F Block (IOMHz))						2 69		2.03				1.98		NA	
Valuation Data															
Current Price per Share 1 2 95	\$7.1.5	\$6.1.2		\$11.3.1		\$17.1.5		\$22.1/2		\$138		\$18		\$26.1.5	
Balance Sheet Date	9 141 97	9 30 97	do	9 30 97	(h)	9 30 97		9 30 97		6 30 97		9 30 97		9 30 97	
Number of Shares Outstanding, pro-forma	71.6	46.2		12.9		26.9		51.7		1.198 0		90.2	(h)	242.7	
Options & Warrants	0.0	9.3		0.0		126		3.5		0.2		1.9		72.9	
Total Adjusted Shares Outstanding	71.6	55.5		42.9		39.5		55.2		1.198.2		92.2		315.6	
Pro Forma Equity Market Capitalization	\$5116	\$360.7		\$504.5		\$677.1		\$1,241.4		\$5,241.4		1,658.7		8.265.6	_
Pro Forma Debt	\$583.0 🍂	\$499.8		\$469.9		\$785.1		1,539.8		1,530.4	(f)	1,369.2	(h)	5,336.9	
Debt from D-E-F auction						0.0									
Total Pro Forma Debt	583.0	499.8		469.9		785.1		1,539.8		1,530.4		1,369.2		5,336.9	
Pro Forma Cash	0.4	392.9		242.7		414.2		157.5		54.8		343.5		1,859.5	
PF Net Debt	582.6	107.0		227.2		370.9		1,382.4		1,475.6		1,025.7		3,477.5	
PF Enterpise Value	1,097.2	467.7		731.7		1,048.0		2,623.7		6,717.0		2,684.4		11,743.1	_
Other Assets	0.0	0.0		202.4		44.3		0.0		42.0		1,128.0		0.0	
										22.8					
										148.1					
Total Other Assets	0.0	0.0		202.4	_ ^(c) _	44.3	_ (e) _	0.0		212.9	^(g) _	1,128.0	(i) (h	0.0	
Cap Ex	568.9	250.3		223.1		418.4		501.2		1,196.6		613.3		3,164.5	
SUBS (000's)	65.0	22.5		NA		66.1		80.0		1,200.0		101.0		946.6	
NPV per Sub	271.56	271.56		271.56		271.56		271.56		271.56		271.56		271.56	
NPV of Subscribers	17.7	6.1		0.0		17.9		21.7		325.9		27.4		257.1	
Capital Exp. + NPV of subs	586.6	256.4		223.1		436.3		522.9		1,522.5		640.7		3,421.6	(j)

Information on Selected PCS Companies

(all values in millions except per share and per POP values)

2-Jan-98	Aerial Comm.	Microcell	Clearnet	PowerTel	Omnipoint (OPCSE)	Orange ple	Western Wireless	Nextel Comm
Pro Forma PCS Enterprise Value (5)	\$1,097.2	\$467.7	\$529.3	\$1,003.6	\$2,623.7	\$6,504.1	\$1,556.4	\$11,743.1
per footprint POP	\$40.19	\$15.85	\$17.94	\$43.31	\$28.09	\$111.38	\$27.13	\$47.74
per heavyweight net POP	\$40.19	\$15.85	\$17.94	\$43.58	#DIV/0!	\$111.38	\$30.08	\$56.16
per weighted net POP	\$40.19	\$15.85	\$17.94	\$46.97	\$32.41	\$111.38	\$40.42	\$95.47
per absolute net POP	\$40.19	\$15.85	\$17.94	\$48.33	\$37.38	\$111.38	\$48.30	\$143.22
						·		
Implied PCS License Value (6)	\$510.6	\$211.3	\$306.2	\$567.3	\$2,100.8	\$4,981.7	\$915.7	\$8,321.5
per footprint POP	\$18.70	\$7.16	\$10.38	\$24.48	\$22.50	\$85.31	\$15.96	\$33.83
per heavyweight net POP	\$18.70	\$7.16	\$10.38	\$24.63	#DIV/0!	\$85.31	\$17.70	\$39.80
per weighted net POP	\$18.70	\$7.16	\$10.38	\$26.55	\$25.95	\$85.31	\$23.78	\$67.65
per absolute net POP	\$18.70	\$7.16	\$10.38	\$27.32	\$29.93	\$85.31	\$28.42	\$101.49
·	<u></u>				\			<u> </u>
Implied Business Plan Value (7)	\$221.4	\$60.0	\$154.9	\$210.7	\$1,062.8	\$4,981.7	\$629.3	\$8,321.5
per footprint POP	\$8.11	\$2.03	\$5.25	\$9.09	\$11.38	\$85.31	\$10.97	\$33.83
per heavyweight net POP	\$8.11	\$2.03	\$5.25	\$9.15	#DIV/0!	\$85.31	\$12.16	\$39.80
per weighted net POP	\$8.11	\$2.03	\$5.25	\$9.86	\$13.13	\$85.31	\$16.34	\$67.65
per absolute net POP	\$8.11	\$2,03	\$5.25	\$10.14	\$15.14	\$85.31	\$19.53	\$101.49

^{(1) 1990} POPs

⁽⁵⁾ Enterprise Value less Other Assets

^{(2) 1995} POPs

⁽⁶⁾ Enterprise Value less Other Assets, Cap Ex, and NPV of Subs.

^{(3) 1996} POPs

⁽⁷⁾ Enterprise Value less Other Assets, Cap Ex. NPV of Subs and License Acquisition Costs.

^{(4) 1997} POPs

Information on Selected PCS Companies

Footnotes

Aerial Communications

(*) Includes \$87.25 million in current trade liabilities payable to Nokia pursuant to a vendor financing agreement that the Company was planning on taking out with the issuance of a zero in the 4th quarter but has not yet done so.

Clearnet Communications Inc. and Microcell Telecommunications

- (a) Estimated. Represents the net present value (discounted at 15%) of expected future annual license fees.
- (b) All currency items are presented in U.S. dollars. Conversion where applicable is Cdn \$1.00 = US \$.734. \$ 0.734
- (c) Includes value attributable to ESMR assets (\$11(US) per POP, or approximate 75% discount to NEXTEL valuation).

PowerTel

- (d) Includes \$195 million (\$28.09 per POP) paid to GTE for the Atlanta MTA.
- (e) includes 295,600 net cellular POPs valued at \$150 per POP.

Orange plc

- (f) All pound sterling amounts for Orange plc have been calculated using exchange rate of \$1,6403 per L1 00
- (g) Other Assets is made up of the following:
 - \$42.0 Reflects value of 105,000 cellular reseller subscribers at \$400 per subscriber.
 - \$22.8 Reflects value of 57,000 paging subscribers at \$400 per subscriber.
 - \$148.1 Reflects value of acquisition of 114,000 French and 108,000 German cellular reseller subscribers for a total of L57.1 million, which translates to \$396.36 per subscriber. (Which number 221,000 and 153,000 respectively as of 6/30/97)
 - \$1,196.6 Reflects company wide PP&E investment of L927.7 million invested from 1/1/95 to 6/30/96.

Western Wireless

- (h) Pro Forma for Triad cellular assets. Includes \$184 mm in debt and 1.6 mm share of Class A Common issued for 1 mm POPS with 55,000 subs. Pro Forma for Hutchinson Investments of 5% of the company (i) 3.88 mm shares for \$74.0 mm completed 11/26/97 and (ii) agreement to sell 19.9% of the Company for 284.0 MM in the first or second quarter of 1998.
- (i) Includes 6MM cellular POPs valued at \$150 per POP.

Nextel Communications

(j) Total PP&E is since inception through 9/30/97.

<u>Primary Underwriters for Public Wireless Telecommunications Debt and Equity Issues</u> 1/1/94 - 6/30/97

	CS First Boston	DLJ Securities	Goldman Sachs	Lehman Brothers	Merrill Lynch	Morgan Stanley	Salomon Brothers
Airtouch				X	X		x
AT&T	x	X	x	x	×	X	X
Bell South			X	X	x	X	X
GTE		X	X			X	
Nextel	X					X	
SBC Communications			X		X	X	X
Sprint PCS		X		x	X		x
US West		X	X	x	X	x	X
360 Communications				X	x		X
Aerial Communications		X					
Omnipoint		X					X
Powertel						X	
Western Wireless		X	X		X		X

Information on Selected PCS Companies - Valuations at Offerings

(all values in millions except per share and per POP values)

	IPO 4/25/96	6/2/	97			Secondary 2/1/96		Sr Dis Nts '0 4/16/96	06	6/2/97		IPO 1/25/96	Secondary 6/27/96
	Aerial Comm	Aer . Com		Clearnet		InterCel, Inc.		InterCel, In	c.	InterCel, Inc.		Omnipoint (OPCSE)	Omnipoin (OPCSE)
Technology	GSM	GS		CDMA		GSM	-	GSM	-	GSM	_	CSM IS 661	GSM 1S 661
30 MHz POPs (Year)	27.3	(1995) 27.3		29.5	(1995)	9.0	(1990)	16.0	(1990)	16.9	(1996)	26.8	(1994) :
20 MHz POPs	NM	NN NN		NM	(2000)	5 111	(133.1)		(1000)	5,3	(1990)	=-//	(1001)
10 MHz POPs	NM	NN		NM						0.9	(1990)		\$0
Gross POPs (footprint)	27.3	27.3		29.5		9.0		16.0		23.2		26.8	\$40
Net POPs (30 MHz equivalent)	27.3	27.3	3	29.5		9.0		16.0		20.8		26 8	\$40
Stock Offering Data													
	Completed			Completed	i					Completed			
Status	4/25/96			5 22 96		Issued 2/1/96	i			2/1/96		Priced 1/25/96	Priced 6/27/
Shares Offered/ Filed	\$12.25			9.2		7.4				7.1		8.1	
% of company post-offering	17.2%			23.0%		25.6%				26.6%		13.5%	10
Offering/ Mid-Point Price	\$17.00			\$19.00		\$16.50				\$16.50		\$16.00	\$26
Size	\$208.25			\$174.50		\$121.66				\$117.55		128.80	\$15
License Acquisition Costs per POP													
License Bid Amount	4300 ***	4366	_			*****			. 11		. 15	****	4=6
(C and B Block)	\$289.20	\$289.		N/A		\$130.3		\$325.3	(d)	\$325.4	(d)	\$347.5	\$509
(D-E-F Block)	0.0	0.0								31.3			\$0
License Fee Paid per POP			_										
(C and B Block)	\$10.59	\$10.5	9	\$5.13	(a)				(d)	\$19.25	(11)	\$12.97	\$12
(D-E-F Block (10MHz))	0.0	0.0								2.69		0.00	\$ C
Valuation Data													
Current Price per Share	\$17.00	\$ 8.7	18	\$115.8		\$16 1/2		\$23 1/8		\$13.3/4		\$16	\$26.00
6/2/97	(4/25/96)					(2/1/96)		(4/16/96)				(1/27/96)	((6/27/96
Balance Sheet Date	12/31/95	3/31/	97	3/31/97		12/31/95		12/31/95		3/31/97		9/30/95	3/31/96
Number of Shares Outstanding, pro forma	871.34	71.5		40.0		28.8		37.3		36.0	(f)	48.0	54.9
Adjusted Shares due to Options & Warrants	\$0.00	0.0		0.0		0.00		0.0		0.00		0.0	
Total Adjusted Shares Outstanding	71.3	71.5		40.0		28.8		37.3		36.0		48.0	54.9
Pro Forma Equity Market Capitalization	\$1,212.7	\$634.5	5	\$465.4		8474.94		\$863.2		\$494.4		\$768.0	\$1,426.5
(+) Pro Forma Debt	\$0.00	\$188.7	- 30	\$213.9	(b)	\$193.91		\$394.2		\$447.52		\$373.1	\$870.3
(+) Debt from D-E-F auction	\$0.00	\$0.00			` '					\$31.25			
Total Pro Forma Debt	\$0.00	\$188.3		\$213.95	í	\$193.91		\$394.17		\$478.77		\$373.08	\$870.25
(-) Pro Forma Cash	\$395.20	\$7.4 (_	203,3	- (b)	\$291.02		\$437.99		\$284.51		\$87.00	\$237.99
• •	\$0.00	\$197.5		62.0	(17)	\$0.00		\$0.00		\$72.31		\$0.00	\$3.35
(-) Capital Exp. + Marketing Exp.					6.5							•	
(-) Other Assets	\$0.00	\$0,00	<u>-</u>	202,4	_ ^(c) -	\$104.01	-	\$104.01		\$44.34	_ ^(e) 、	\$0.00	\$0.00
(=) Pro Forma PCS License Value	\$817.5	\$617.		\$211.6	-, r	\$273.8	r	\$715.3	-a -	\$572.0	- ·	\$1,054.1	\$ 2,293
Implied License Value per footprint POP	\$29.95	\$22.6		\$7.17	_	\$30.42]	\$44.71	→	\$24.68]	\$39.33	\$ 5€
Implied License Value per Net POP	\$29.95	\$22.6		\$7.17	-	\$30.42	Ĺ	\$44.71	1 1	\$27.55]	\$39.33	\$ 56
Implied PCS Enterprise Value per footprint F		\$29.8		\$9.28	_	\$30.42	L	\$44.71	_ _	\$27.81	1 1	\$39.33	\$ 5€
Implied Value per Net POP (n)	\$29.95	\$29.8	7 _	\$16.14	Jl	\$41.98	L	\$51.21] [\$33.16	J	\$39.33	\$ 56

Spectral Shifts

Michael Elling (212) 778-4768

September 22, 1997

Recommendations For The Next FCC Commissioners

The problems at the FCC over C-Block license debt highlight a larger issue with telecom regulations, namely that regulators are terrible risk takers in a risky and fast-changing world. We believe, furthermore, that regulators never did and never will appreciate the dynamics of two-way communications, otherwise they wouldn't have split-up AT&T. They exhibit a strong "access" bias in their thinking, particularly as they appear to fear the scalability and power of centralized networks. Regulatory policy over the past 100 years has managed to create a balkanized state of affairs in the U.S., otherwise referred to as the "Yugoslavia" of communication networks. The only party that has really benefited from this policy approach is investment bankers who earn tremendous fees repairing and rebuilding what the regulators have torn as under with the best of utopian intentions. The current FCC in particular, under Chairman Reed Hundt and Commissioners Chong, Ness and Quello, will likely go down as one of the least successful ever, not because the individuals were any different than in the past, but because they were not prepared to deal effectively and realistically with the challenges of deregulating during this period of massive change. As this commission departs in public relations flames we thought it was time to pay our respects and provide the next commission with some advice. Let us review the important failures of Hundt's commission. First, it failed to provide enough pro-competitive, constructive input into the Telecom Act of 1996, opening the door for monopolists and local interests to have their way with the law-makers. As a result of the Act not having the requisite teeth, access charge reform was doomed to fail. So too was a redefinition of universal service policy. Things like 800 service payphone compensation issues should never have developed the way they did. All these issues have been thrown back into the FCC's face by the courts. In addition to the C-Block and other failing wireless issues (WCS and LMDS auctions, tower-siting, etc...) recent decisions to bless the BEL/NYNEX merger (which only expands an existing monopoly) and doom a potential SBC/ATT merger (which would have forced an opening of an RBOCs network) demonstrate a counter-intuitive approach to formulating pro-competitive policy. So here's our quick and dirty primer for the new commission, we believe that the new commission should:

- 1) Embrace centralization; the markets have been doing this for years;
- 2) Understand that communications is two-way; cost-effective multimedia between New York and Los Angeles requires end-to-end control (not necessarily ownership);
- 3) Work with local regulators; make them understand that new technologies get implemented on a wide-area basis first, and only when a market of significant size (national and regional) exists;
- 4) Understand that parts of humpty-dumpty (Ma Bell) have to be put back together again: if the 14 points are observed then there will probably be 5-6 facilities-based STN's in the next 10 years;
- 5) Monopolists and regulators never make risky decisions; competitors do:
- 6) Monopolists and regulators live in the world of averages; competitors live on the margin;
- 7) Give the court system a basic lesson in communications theory (the above 6 points) and emphasize that the monopoly was granted by the pen and can be taken away by the pen (there are no inalienable telecom rights);
- 8) Networks are evolving at a rapid pace (look at the evolution of data networks); there is no correct or most efficient solution for your Office of Plans & Policy to develop;
- 9) Wireless markets have 3 year time horizons, wireline markets maybe 5 years;
- 10) Understand that as it currently stands, the Telecom Act of 1996 is a failure.

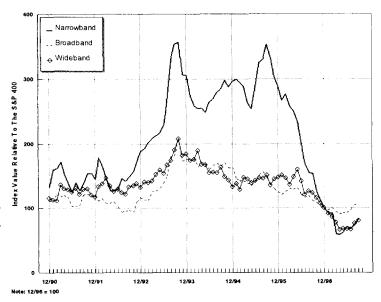


Michael Elling (212) 778-4768

September 22, 1997
Page 2

Sector Performance: Despite big moves in the market indexes (2.6% for the S&P 400, 1.9% for the NASDAO, and 2.3% for the Dow), wireless managed to outperform, posting gains of 3.4%/3.6%*. narrowband sector enjoyed another profitable week as the industry (9.3%/14.5%)* led the wireless universe in gains on news of pricing stability for advanced services. The wireless rally was truly broad-based; on a market-cap weighted basis, only the PCS industry posted a loss for the week (-5.2%/-5.6%). Broadband wireless (3.1%/-0.1%)* was weighed down by the PCS carriers and an underperforming domestic cellular industry (2.1%/1.6%)*, despite a rise in the SMR industry (+4.4%/0.0%)*. *(Market cap. wtd./price wtd).

Company Performance: PageNet (PAGE—12 5/8, rated Buy) (+9.8%) and Mtel (MTEL—14 1/16, rated Hold) (+6.6%) announced an agreement to resell each others' service. Deal should signal lower pricing pages.



Source: FactSet data

each others' service. Deal should signal lower pricing pressure for enhanced services. Arch (APGR—9 1/8, rated Buy) gained 40.4%. AirTouch (ATI—36 13/16, rated Buy) (+2.6%) and Centennial (CYCL—18 3/8, not rated) (+6.5%) were the only domestic cellular carriers to outpace the market. Nextel (NXTL—28 9/16, rated Buy) (+4.8%) continued its climb, and the PCS stocks all suffered losses: Powertel (PTEL—18 5/8, not rated) (-6.3%), Omnipoint (OMPT—22 7/16, not rated) (-4.4%), Western Wireless (WWCA—16 7/8, not rated) (-8.2%), and Aerial (AERL—9 1/8, not rated) (-3.9%) all pulled back following recent gains. Winstar gained 10.9% on reseller announcement.

Strategic: Pittencrieff (PITC—5 5/8, not rated) shareholders approve Nextel merger. Sprint Spectrum/APC announces GSM roaming agreement with Western Wireless. Sprint PCS announces \$4.95 per month home-rate in-system roaming, and \$19.95 toll-free domestic long-distance. Brite Voice Systems (BVSI—11, not rated) will provide cellular prepaid to TeleSTET in Greece. AT&T (T—44, rated Hold by Guy Woodlief) announces franchise plan that would include wireless carriers Triton, Telecorp, Mercury PCS and Wireless One, and C-LEC Nextlink. Cellular One of Puerto Rico will resell Winstar's (WCII—17 1/8, not rated) wireless C-LEC services. Clearnet (CLNTF—14 15/16, rated Buy) launched Mike service in Ottawa).

Financial: Duff&Phelps upgraded Microcell's senior debt to B from B-, while Moody's maintains B3 rating. HighwayMaster (HWYM—8 1/2, not rated) completed \$125 million private placement of notes and warrants.

Regulatory: Argentina postponed the bid date for its PCS licenses until October 20. Senate passes a bill outlawing possession of equipment used to clone cellular phones.

Technology: Wireless Application Protocol for digital broadband advanced services announced by Nokia, Ericsson, Motorola, Unwired Planet.

What To Look For: Sprint PCS and Radio Shack host a luncheon in New York to discuss results to date of their alliance. FCC meets Thursday to discuss C-block financing. Telecom Ops. '97 in New York Thursday and Friday.



Appendix 1. Spectral Shifts Data—Companies

NarrowBand (kHz)	Current Price 9/19/97	Last 5 Days* (% Chg)	Month- To-Date (% Chg)	Quarter- To-Date (% Chg)	Year- To-Date (% Chg)	Last 12 Mos. (% Chg)	From 52-Wk. Hi (% Chg)	Market Cap (\$ Mil.)	Net Debt (\$ Mil.)	EV/EBITDA (Latest Qtr. Ann.)
Paging Arch Comm American Pag Metrocall Mte Pronet PageNet PageMart	APGR APP MCLL MTEL PNET PAGE PMWI	\$9.13 \$2.38 \$6.94 \$14.06 \$5.94 \$12.63 \$9.75	40.4 11.8 4.7 6.6 8.0 9.8 1.3	46.0 0.0 4.7 14.8 6.7 24.7	19.7 58.3 54.2 (1.7) 48.4 43.8 14.7	(2.7) (49.3) 38.3 65.4 35.7 (17.2) 47.2	(60.4) (10.5) (3.8) (22.1)	(35.4) (61.2) (14.6) (16.0) (34.9) (40.6) (6.0)	\$189.8 47.8 174.0 766.1 74.9 1,295.6 389.3	\$955.2 158.3 328.5 387.0 166.4 1,700.6 256.6	8.8 NM 7.4 26.5 7.8 10.0 26.5
BroadBand (MHz) Cellular Airtouch Comm Centennial Cellular CommNet Cellular Vanguard Cellular Palmer Wireless 360 Comm U.S. Cellular	ATI CYCL CELS VCELA PWIR XO USM	\$36.81 \$18.38 \$34.44 \$14.38 \$17.38 \$21.56 \$33.25	2.6 6.5 (0.9) 0.4 0.4 (0.6) 2.3	(1.7) 0.0		45.8 51.5 23.5 (8.7) 65.5 (7.3) 19.3	(7.3)	(3.9) (3.3) (3.0) (25.8) (8.1) (16.7) (1.7)	\$18,531.4 495.2 474.1 579.0 483.3 2,627.1 2,865.6	\$1,585.0 385.6 256.0 716.7 378.6 1,847.3 409.3	15.1 15.2 13.0 10.3 10.1 9.1 11.1
International Cell BCE Mobile Comm Millicom Intl. Cellular Rogers Cantel Vodafone Clearnet Orange	Iular/PCS BCX MICCF RC VOD CLNTF ORNGY	\$37.00 \$52.00 \$18.19 \$53.00 \$14.94 \$17.63	0.7 0.0 (3.0) 6.8 4.8 1.4	3.7 2.0 (8.5) 4.0 7.7 (3.8)	9.4 23.2	24.9 61.9 (6.1) 28.1 35.8 10.2	16.1 37.7 (9.1) 54.2 (2.0) 20.5	(1.7) (9.6) (25.0) (0.9) (15.8) (4.1)	\$2,566.0 2,503.3 1,708.3 16,250.6 7,307.8 4,223.1	\$391.0 661.3 1,351.3 267.0 120.8 1,205.5	9.9 61.0 9.6 6.4 NM
Fulfillment Servic Lightbridge	ce LTBG	\$15.88	(3.8)	28.3	108.2	85.4	NA	5.9	\$232.4	(\$21.2)	28.0
SMR Nextel Geotek	NXTL GOTK	\$28.56 \$4.41	4.8 (4.7)	14.0 0.7	50.8 (19.0)	118.7 (38.2)	74.4 (53.6)	(3.6) (55.4)	\$6,914.0 291.2	\$3,727.3 192.4	NM NM
PCS Powertel Omnipoint Western Wireless Aerial	PTEL OMPT WWCA AERL	\$18.63 \$22.44 \$16.88 \$9.13	(6.3) (4.4) (8.2) (3.9)	7.2 12.0	34.2 35.0 6.3 7.4	52.0 16.6 21.6 12.3	(8.0) (13.7) 16.4 (13.1)	(16.3) (36.8) (11.8) (14.1)	\$501.2 1,157.1 1,181.8 652.6	\$335.8 1,140.3 1,048.7 313.7	NM NM NM NM
WideBand (GHz) Wireless Cable/M	IMDS										
American Telecast CAI Wireless Heartland Peoples Choice Wireless One	ATEL CAWS HART PCTV WIRL	\$1.38 \$1.41 \$2.63 \$2.69 \$3.19	18.9 (6.3) 2.4 (2.3) (1.9)	50.0 (10.4)	120.0 32.4 10.5 65.4 24.4	(76.1) 40.6 (80.0) (56.1) (51.9)	(80.3) (86.7) (79.7)	(89.7) (82.1)	\$35.4 57.0 51.6 34.7 54.0	\$270.8 316.0 236.4 163.9 239.9	NM NM NM NM
LMDS Cellularvision USA Winstar Comm Associated Group Advanced Radio	CVUS WCII AGRPA ARTT	\$7.88 \$17.13 \$69.75 \$8.38	(7.4) 10.9 (9.4) 17.5	2.6	28.0	(18.5) 126.8	114.6	(33.7) (31.2) (14.4) (49.2)	\$126.0 566.2 1,310.0 78.6	(\$3.5) 277.6 131.6 47.9	NM NM NM NM
Satellit Amer. Mob. Sat ComSat Orbital Sciences Globalstar Iridium	SKY CQ ORBI GSTRF IRID	\$7.63 \$23.50 \$20.75 \$49.00 \$43.75	(4.7) 1.3 (3.5) 15.0 13.6	8.4	(1.3)			(49.2) (17.5) (13.5) (1.5) (1.4)	\$191.7 1,154.6 669.6 1,501.0 5,942.8	\$202.7 631.4 84.3 300.9 806.9	NM 6.5 11.3 NM NM
S&P 40 NASDAQ Composite		1,111.92 1,680.36	2.6 1.9	5.2 5.9	6.6 16.5	27.8 30.2	37.3 38.6	(2.1) (0.4)			

Note: !=Single Best Idea; Reported data excludes pending acquisitions and other nonconsolidated assets Source: FactSet data; Prudential Securities Inc. estimates.

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Appendix 2. Spectral Shifts Data—Indexes

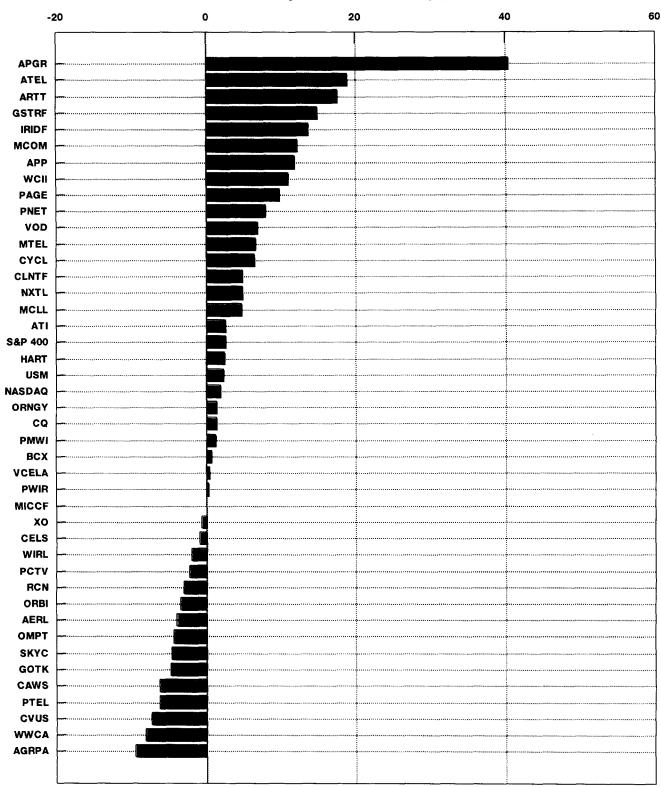
Market Cap Weighted Indexes* Narrowband 107.03 9.3 18.0 24.2 7.0 (28.3) (29.6) 18.1		Current Price 9/19/97	Last 5 Days (% Chg)	Month- To-Date (% Chg)	Quarter- To-Date (% Chg)	Year- To-Date (% Chg)	Last 12 Mos. (% Chg)	From 52-Wk. Hi (% Chg)	EV/EBITDA (Latest Qtr. Annualized)
Broadband	Market Cap Weighted Inc	dexes*							
Cellular 129.62 3.3 5.6 18.5 29.6 29.5 0.0 NM Domestic Cellular 133.22 2.1 9.3 29.0 33.2 19.7 0.0 13.9 International Celluar/PCS 126.50 4.5 2.4 10.3 26.5 39.5 (0.0) NM SMR 198.02 4.4 13.4 45.7 98.0 56.7 (2.9) NM PCS 123.06 (5.2) 5.2 26.5 23.1 (9.5) (22.2) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0 NM MMDS 36.48 0.5 18.7 36.7 (63.5) (82.9) (84.8) 17.1 Satellit 122.70 6.3 12.9 30.6 22.7 31.1 0.0 3.8 LMDS 114.81 0.2 (0.6) 34.6 14.8 6.6 (4.3) NM Wireline <	Narrowband	107.03	9.3	18.0	24.2	7.0		(29.6	
Domestic Cellular 133.22 2.1 9.3 29.0 33.2 19.7 0.0 13.9 International Celluar/PCS 126.50 4.5 2.4 10.3 26.5 39.5 (0.0) NM SMR 198.02 4.4 13.4 45.7 98.0 56.7 (2.9) NM PCS 123.06 (5.2) 5.2 26.5 23.1 (9.5) (22.2) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) NM MMDS 36.48 0.5 18.7 36.7 (63.5) (82.9) (84.8) 17.1 Satellit 122.70 6.3 12.9 30.6 22.7 31.1 0.0 3.8 LMDS 114.81 0.2 (0.6) 34.6 14.8 6.6 (4.3) NM Wireless 129.27 3.4 7.0 22.0 29.3 19.7 (0.2) NM Wireless 129.27 3.4 7.0 22.0 29.3 19.7 (0.2) NM Wireless 137.94 4.5 17.5 42.5 37.9 (18.4) (18.7) 31.2 3	Broadband	134.93		6.5					,
International Celluar/PCS 126.50 4.5 2.4 10.3 26.5 39.5 (0.0) NM SMR 198.02 4.4 13.4 45.7 98.0 56.7 (2.9) NM PCS 123.06 (5.2) 5.2 26.5 23.1 (9.5) (22.2) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) NM MMDS 36.48 0.5 18.7 36.7 (63.5) (82.9) (84.8) 17.1 Satellit 122.70 6.3 12.9 30.6 22.7 31.1 0.0 3.8 LMDS 114.81 0.2 (0.6) 34.6 14.8 6.6 (4.3) NM Wireless 129.27 3.4 7.0 22.0 29.3 19.7 (0.2) NM Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 7.4	Cellular	129.62	3.3	5.6	18.5	29.6			
SMR 198.02 4.4 13.4 45.7 98.0 56.7 (2.9) NM PCS 123.06 (5.2) 5.2 26.5 23.1 (9.5) (22.2) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) NM MMDS 36.48 0.5 18.7 36.7 (63.5) (82.9) (84.8) 17.1 Satellit 122.70 6.3 12.9 30.6 22.7 31.1 0.0 3.8 LMDS 114.81 0.2 (0.6) 34.6 14.8 6.6 (4.3) NM Wireless 129.27 3.4 7.0 22.0 29.3 19.7 (0.2) NM Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 7.4 Average Weighted Indexes* Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (1.1) 7.4 </td <td>Domestic Cellular</td> <td>133.22</td> <td>2.1</td> <td>9.3</td> <td>29.0</td> <td></td> <td></td> <td></td> <td></td>	Domestic Cellular	133.22	2.1	9.3	29.0				
PCS 123.06 (5.2) 5.2 26.5 23.1 (9.5) (22.2) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) NM MMDS 36.48 0.5 18.7 36.7 (63.5) (82.9) (84.8) 17.1 Satellit 122.70 6.3 12.9 30.6 22.7 31.1 0.0 3.8 LMDS 114.81 0.2 (0.6) 34.6 14.8 6.6 (4.3) NM Wireless 129.27 3.4 7.0 22.0 29.3 19.7 (0.2) NM Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 7.4 Average Weighted Indexes* Namework Namework 129.27 1.4 2.8 7.4 2.4 11.8 18.4 (1.1) 7.4 Average Weighted Indexes*	International Celluar/PCS	126.50	4.5	2.4	10.3				
Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) NM MMDS 36.48 0.5 18.7 36.7 (63.5) (82.9) (84.8) 17.1 Satellit 122.70 6.3 12.9 30.6 22.7 31.1 0.0 3.8 LMDS 114.81 0.2 (0.6) 34.6 14.8 6.6 (4.3) NM Wireless 129.27 3.4 7.0 22.0 29.3 19.7 (0.2) NM Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 7.4 Average Weighted Indexes* Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (1.1) 7.4 Average Weighted Indexes* Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (1.1) 7.4 Average Weighted Indexes* Narrowband <td></td> <td>198.02</td> <td>4.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		198.02	4.4						
MMDS 36.48 0.5 18.7 36.7 (63.5) (82.9) (84.8) 17.1 Satellit 122.70 6.3 12.9 30.6 22.7 31.1 0.0 3.8 LMDS 114.81 0.2 (0.6) 34.6 14.8 6.6 (4.3) NM Wireless 129.27 3.4 7.0 22.0 29.3 19.7 (0.2) NM Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 7.4 Average Weighted Indexes* Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (18.7) 31.2 Broadband 133.49 (0.1) 4.9 15.4 33.5 16.7 (1.0) NM Cellular 129.07 1.4 3.8 12.3 29.1 20.2 (0.3) 4.7 Domestic Cellular 131.12 1.6 6.9 14.3 31.1 14.9 <td>PCS</td> <td>123.06</td> <td>(5.2)</td> <td>5.2</td> <td>26.5</td> <td></td> <td>(9.5)</td> <td>(22.2</td> <td></td>	PCS	123.06	(5.2)	5.2	26.5		(9.5)	(22.2	
Satellit LMDS 122.70 6.3 12.9 30.6 22.7 31.1 0.0 3.8 LMDS 114.81 0.2 (0.6) 34.6 14.8 6.6 (4.3) NM Wireless 129.27 3.4 7.0 22.0 29.3 19.7 (0.2) NM Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 7.4 Average Weighted Indexes* Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (18.7) 31.2 Broadband 133.49 (0.1) 4.9 15.4 33.5 16.7 (1.0) NM Cellular 129.07 1.4 3.8 12.3 29.1 20.2 (0.3) 4.7 Domestic Cellular 131.12 1.6 6.9 14.3 31.1 14.9 (0.5) 12.0 International Celluar/PCS 124.58 1.2 (0.5) 9.3	Wideband	102.95	6.5	11.2	27.9	3.0	(9.2)	(11.0) NM
LMDS Wireless 114.81 129.27 0.2 (0.6) 34.6 22.0 29.3 19.7 (0.2) NM Wireless 129.27 3.4 7.0 22.0 29.3 19.7 (0.2) NM Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 7.4 Average Weighted Indexes* Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (18.7) 31.2 Broadband 133.49 (0.1) 4.9 15.4 33.5 16.7 (1.0) NM Cellular 129.07 1.4 3.8 12.3 29.1 20.2 (0.3) 4.7 Domestic Cellular 131.12 1.6 6.9 14.3 31.1 14.9 (0.5) 12.0 International Celluar/PCS 124.58 1.2 (0.5) 9.3 24.6 25.6 (2.2) NM SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM PCS 137.62 (5.6) 5.9 22.1 37.6 7.8 (5.6) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS Satellite/38 GHz 122.70 6.3 12.9 30.6 22.7 31.1 0.0 2.8 (2.5) NM LMDS 126.74 2.6 1.0 23.2 26.7 15.7 (2.5) NM Wireless 128.01 3.6 10.0 28.4 28.0 (2.8) (3.5) 8.5 Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 S&P 40 1,111.92 2.6 5.2 6.6 27.8 37.3 (2.1)	MMDS	36.48		18.7		(63.5)		(84.8	
Wireless 129.27 3.4 7.0 22.0 29.3 19.7 (0.2) NM Average Weighted Indexes* Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (18.7) 31.2 Broadband 133.49 (0.1) 4.9 15.4 33.5 16.7 (1.0) NM Cellular 129.07 1.4 3.8 12.3 29.1 20.2 (0.3) 4.7 Domestic Cellular 131.12 1.6 6.9 14.3 31.1 14.9 (0.5) 12.0 International Celluar/PCS 124.58 1.2 (0.5) 9.3 24.6 25.6 (2.2) NM SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM PCS 137.62 (5.6) 5.9 22.1 37.6 7.8 (5.6) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2)	Satellit	122.70	6.3	12.9				0.0	
Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 7.4 Average Weighted Indexes* Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (18.7) 31.2 Broadband 133.49 (0.1) 4.9 15.4 33.5 16.7 (1.0) NM Cellular 129.07 1.4 3.8 12.3 29.1 20.2 (0.3) 4.7 Domestic Cellular 131.12 1.6 6.9 14.3 31.1 14.9 (0.5) 12.0 International Celluar/PCS 124.58 1.2 (0.5) 9.3 24.6 25.6 (2.2) NM SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9)	LMDS	114.81	0.2	(0.6)		14.8	6.6	(4.3	
Average Weighted Indexes* Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (18.7) 31.2 Broadband 133.49 (0.1) 4.9 15.4 33.5 16.7 (1.0) NM Cellular 129.07 1.4 3.8 12.3 29.1 20.2 (0.3) 4.7 Domestic Cellular 131.12 1.6 6.9 14.3 31.1 14.9 (0.5) 12.0 International Celluar/PCS 124.58 1.2 (0.5) 9.3 24.6 25.6 (2.2) NM SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM PCS 137.62 (5.6) 5.9 22.1 37.6 7.8 (5.6) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9) (66.7) 30.5 Satellite/38 GHz 126.74 2.6 1.0	Wireless	129.27	3.4	7.0	22.0	29.3	19.7	(0.2) NM
Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (18.7) 31.2 Broadband 133.49 (0.1) 4.9 15.4 33.5 16.7 (1.0) NM Cellular 129.07 1.4 3.8 12.3 29.1 20.2 (0.3) 4.7 Domestic Cellular 131.12 1.6 6.9 14.3 31.1 14.9 (0.5) 12.0 International Celluar/PCS 124.58 1.2 (0.5) 9.3 24.6 25.6 (2.2) NM SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM PCS 137.62 (5.6) 5.9 22.1 37.6 7.8 (5.6) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9) (66.7) 30.5 Satellite/38 GHz 126.74 2.6 1.0 23.2 26.7 15.7 (2.5	Wireline	111.81	2.8	7.4	2.4	11.8	18.4	(1.1) 7.4
Narrowband 137.94 14.5 17.5 42.5 37.9 (18.4) (18.7) 31.2 Broadband 133.49 (0.1) 4.9 15.4 33.5 16.7 (1.0) NM Cellular 129.07 1.4 3.8 12.3 29.1 20.2 (0.3) 4.7 Domestic Cellular 131.12 1.6 6.9 14.3 31.1 14.9 (0.5) 12.0 International Celluar/PCS 124.58 1.2 (0.5) 9.3 24.6 25.6 (2.2) NM SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM PCS 137.62 (5.6) 5.9 22.1 37.6 7.8 (5.6) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9) (66.7) 30.5 Satellite/38 GHz 126.74 2.6 1.0 23.2 26.7 15.7 (2.5	Average Weighted Index	es*							
Broadband 133.49 (0.1) 4.9 15.4 33.5 16.7 (1.0) NM Cellular 129.07 1.4 3.8 12.3 29.1 20.2 (0.3) 4.7 Domestic Cellular 131.12 1.6 6.9 14.3 31.1 14.9 (0.5) 12.0 International Celluar/PCS 124.58 1.2 (0.5) 9.3 24.6 25.6 (2.2) NM SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM PCS 137.62 (5.6) 5.9 22.1 37.6 7.8 (5.6) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9) (66.7) 30.5 Satellite/38 GHz 126.74 2.6 1.0 23.2 26.7 15.7 (2.5) NM Wir			14.5	17.5	42.5	37.9	(18.4)	(18.7) 31.2
Domestic Cellular International Celluar/PCS 131.12 1.6 6.9 14.3 31.1 14.9 (0.5) 12.0 International Celluar/PCS 124.58 1.2 (0.5) 9.3 24.6 25.6 (2.2) NM SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM PCS 137.62 (5.6) 5.9 22.1 37.6 7.8 (5.6) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9) (66.7) 30.5 Satellite/38 GHz 122.70 6.3 12.9 30.6 22.7 31.1 0.0 2.8 LMDS 126.74 2.6 1.0 23.2 26.7 15.7 (2.5) NM Wireless 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 <t< td=""><td></td><td>133.49</td><td></td><td></td><td></td><td></td><td></td><td></td><td>) NM</td></t<>		133.49) NM
International Celluar/PCS 124.58 1.2 (0.5) 9.3 24.6 25.6 (2.2) NM SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM PCS 137.62 (5.6) 5.9 22.1 37.6 7.8 (5.6) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9) (66.7) 30.5 Satellite/38 GHz 122.70 6.3 12.9 30.6 22.7 31.1 0.0 2.8 LMDS 126.74 2.6 1.0 23.2 26.7 15.7 (2.5) NM Wireless 128.01 3.6 10.0 28.4 28.0 (2.8) (3.5) 8.5 Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 \$&P 40	Cellular	129.07	1.4	3.8	12.3	29.1	20.2	(0.3) 4.7
SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM PCS 137.62 (5.6) 5.9 22.1 37.6 7.8 (5.6) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9) (66.7) 30.5 Satellite/38 GHz 122.70 6.3 12.9 30.6 22.7 31.1 0.0 2.8 LMDS 126.74 2.6 1.0 23.2 26.7 15.7 (2.5) NM Wireless 128.01 3.6 10.0 28.4 28.0 (2.8) (3.5) 8.5 Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 S&P 40 1,111.92 2.6 5.2 6.6 27.8 37.3 (2.1)	Domestic Cellular	131.12	1.6	6.9	14.3	31.1	14.9	(0.5) 12.0
SMR 126.05 0.0 7.6 12.7 26.0 (0.7) (4.9) NM PCS 137.62 (5.6) 5.9 22.1 37.6 7.8 (5.6) NM Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9) (66.7) 30.5 Satellite/38 GHz 122.70 6.3 12.9 30.6 22.7 31.1 0.0 2.8 LMDS 126.74 2.6 1.0 23.2 26.7 15.7 (2.5) NM Wireless 128.01 3.6 10.0 28.4 28.0 (2.8) (3.5) 8.5 Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 S&P 40 1,111.92 2.6 5.2 6.6 27.8 37.3 (2.1)	International Celluar/PCS	124.58	1.2	(0.5)	9.3	24.6	25.6	(2.2) NM
Wideband 102.95 6.5 11.2 27.9 3.0 (9.2) (11.0) 11.1 MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9) (66.7) 30.5 Satellite/38 GHz 122.70 6.3 12.9 30.6 22.7 31.1 0.0 2.8 LMDS 126.74 2.6 1.0 23.2 26.7 15.7 (2.5) NM Wireless 128.01 3.6 10.0 28.4 28.0 (2.8) (3.5) 8.5 Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 S&P 40 1,111.92 2.6 5.2 6.6 27.8 37.3 (2.1)	SMR	126.05	0.0			26.0	(0.7)	(4.9) NM
MMDS 82.26 2.5 26.3 71.4 (17.7) (62.9) (66.7) 30.5 Satellite/38 GHz 122.70 6.3 12.9 30.6 22.7 31.1 0.0 2.8 LMDS 126.74 2.6 1.0 23.2 26.7 15.7 (2.5) NM Wireless 128.01 3.6 10.0 28.4 28.0 (2.8) (3.5) 8.5 Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 S&P 40 1,111.92 2.6 5.2 6.6 27.8 37.3 (2.1)	PCS	137.62	(5.6)	5.9	22.1	37.6	7.8	(5.6) NM
Satellite/38 GHz 122.70 6.3 12.9 30.6 22.7 31.1 0.0 2.8 LMDS 126.74 2.6 1.0 23.2 26.7 15.7 (2.5) NM Wireless 128.01 3.6 10.0 28.4 28.0 (2.8) (3.5) 8.5 Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 S&P 40 1,111.92 2.6 5.2 6.6 27.8 37.3 (2.1)	Wideband	102.95	6.5	11.2	27.9	3.0	(9.2)		
LMDS 126.74 2.6 1.0 23.2 26.7 15.7 (2.5) NM Wireless Wireless 128.01 3.6 10.0 28.4 28.0 (2.8) (3.5) 8.5 Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 S&P 40 1,111.92 2.6 5.2 6.6 27.8 37.3 (2.1)	MMDS	82.26	2.5	26.3	71.4	(17.7)	(62.9)	(66.7	30.5
Wireless 128.01 3.6 10.0 28.4 28.0 (2.8) (3.5) 8.5 Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 S&P 40 1,111.92 2.6 5.2 6.6 27.8 37.3 (2.1)	Satellite/38 GHz	122.70	6.3	12.9				0.0	
Wireline 111.81 2.8 7.4 2.4 11.8 18.4 (1.1) 9.2 5 5 6.6 27.8 37.3 (2.1)	LMDS	126.74							,
S&P 40 1,111.92 2.6 5.2 6.6 27.8 37.3 (2.1)	Wireless	128.01	3.6	10.0	28.4	28.0	(2.8)	(3.5) 8.5
	Wireline	111.81	2.8	7.4	2.4	11.8	18.4	(1.1) 9.2
NASDAQ Composite 1,680.36 1.9 5.9 16.5 30.2 38.6 (0.4)	S&P 40	1,111.92	2.6	5.2	6.6			(2.1)
	NASDAQ Composite	1,680.36	1.9	5.9	16.5	30.2	38.6	(0.4)

Source: FactSet data



Appendix 3. Price Performance Of Wireless Stocks





Source: FactSet data



Appendix 4. Rec	ent Wireless Services Reports			
Report Title	Heading	Туре	Date	Pages
Spectral Shifts	Who said telecom is a commodity?	Industry Update	07/28/97	6
AirTouch Communications	Morris Trust exemption not approved for UMG/ATI dea:	Company Update	07/29/97	8
Paging Network	More like Voice(Not)Now as PAGE shifts focus towards one-way	Company Update	07/30/97	6
Arch Communications	Arch quarter is in line with expectations	Company Update	07/30/97	6
Palmer Wireless	Palmer reports in line with expectations	Company Update	07/30/97	8
Lightbridge Inc.	Profitability growth and new contracts highlight 2Q	Company Update	07/30/97	8
Clearnet	CLNTF raises C\$375 mil. in new debt and equity-raising target	Company Update	08/01/97	8
Spectral Shifts	Wireless score—new entrants 7 incumbents 10	Industry Update	08/04/97	6
Metrocall	Metrocall reports strong results for the second quarter	Company Update	08/06/97	6
Paging Network	Jack Frazee named Chairman, President, and CEO	Company Update	08/06/97	6
Wireless One	Stormy weather rains on results while future may be sunnier	Company Update	08/07/97	6
ProNet	Second quarter weighted toward indirect channels	Company Update	08/08/97	6
Spectral Shifts	Ten Cents Per Minute Is The Future Of Wireless	Industry Update	08/11/97	6
Nextel	NXTL's ARPU is on the rise while costs are trewnding down	Company Update	08/12/97	8
Clearnet	Clearnet exceeds our sub and ARPU numbers	Company Update	08/15/97	8
Metrocall	Merger with ProNet highlights synergies	Company Update	08/15/97	6
Paging Network	Resignation of CFO lets Frazee hand pick management	Company Update	08/18/97	6
Spectral Shifts	Wireless wins the wild west of the information age	Industry Update	08/18/97	6
Broadband Wireless	Second quarter Cellular/PCS results are in	Industry Update	08/21/97	12
Spectral Shifts	PCS handset fall fashion preview	Industry Update	08/25/97	6
Spectral Shifts	Where's all that usage coming from	Industry Update	09/02/97	6
Wireless One	WIRL alligns with DirecTV to go after the MDU market	Company Update	09/04/97	6
Paging Network	Visit with PageNet CEO sheds light on new priorities	Company Update	09/08/97	6
Lightbridge Inc.	Increasing PCS activations could provide upside for LTBG	Company Update	09/08/97	8
Clearnet	Demand for Clearnet's MiKe looks high	Company Update	09/08/97	8
Spectral Shifts	800 model is the future funiversal service and wireless industry	Industry Update	09/08/97	6
Spectral Shifts	Wireless cloud part I: one of the most powerful booms ever	Industry Update	09/15/97	6
Paging Network	PAGE announces cross-marketing agreement with Mtel	Company Update	09/17/97	6
Source: Prudential Securit	ies Inc.			

97-3221

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Additional information on the securities discussed herein is available upon request.

Spectral Shifts

Mich Elim (212 476)

Who Is Really To Blame?

Last week we put together a list of 10 suggestions for the future FCC commission to observe as they attempt to deregulate in this telecom maelstrom. During the week we were lucky to participate in a seminar with an FCC official to review the C-block restructuring plan. During the seminar it suddenly became apparent where the real fault lay, and what the future FCC (and other telecom deregulators) can do about changing policy that satisfies all parties. The realization is consistent with not only last week's piece, but one we wrote about future 800-like service offerings being the answer to universal service.

The real blame lies with the inherent desire of the regulators (federal and state) to help out the little guy, and as well, a major aversion to centralization brought on by the trust-buster mentality of the last century and the bitter fight against socialism in this century. The result has been, as we pointed out last week, a severe balkanization of telemedia assets over the past 100 years that have enriched a few lucky individuals and the investment bankers who worked long and hard to put the pieces back together again.

It was during the seminar that the realization hit as to how to satisfy both ends. The answer, it would appear, lies in the competitive long-distance and paging networks. What developed in these industries (out of balkanized, or regional, start-ups) were world-class, end-to-end, national, digital networks. In addition, multiple networks resulted in competitively-defined pricing and interconnection levels that facilitated full-fledged, marketing-driven resellers. A number of these resellers (WorldCom) brought so much value-add to the equation that they ultimately became facilities-based networks.

So the answer, we believe, is to license or auction only multiple national frequencies and force interconnection and minimum competitive pricing bands within broad ranges (bandwidth, commodity, wholesale, and retail costs). This establishes from the get-go a platform for resellers, instead of evolving into one. Nationwide networks would be developed more rapidly, while resellers (with minimal capital investments and a few bright ideas) would be able to quickly generate incremental value-added services.

So all four parties win: facility providers build out networks more effectively, little guys get into the game and make big money, investment bankers raise capital for everybody and make loads of M&A fees as the inevitable construction/destruction cycle of competitive networks takes root, and the public gets a greater variety of less expensive services.

The regulators don't have to do much, thereafter!

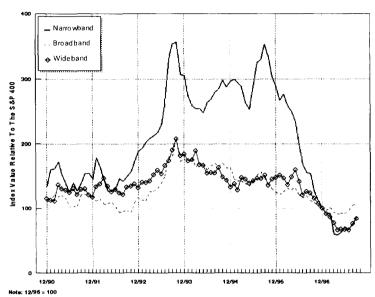




Michael Elling (212) 778-4768

Constitution of the control of the c

Sector Performance: Wireless stocks enjoyed another week of outperformance, posting gains of 0.5%/2.1%* versus a loss of 0.6% in the S&P 400 and gains of 0.1% in both the NASDAQ Composite and the We believe investors are applauding impressive subscriber addition, improved profitability, and brighter prospects throughout the wireless sector. The wideband sector came to life this week (3.6%/3.6%)* supported by gains in the MMDS (5.2%/5.7%)* and Satellite (3.5%/ 3.5%) industries. Domestic cellular $(-0.5\%/0.8\%)^*$. SMR (-1.6%/-2.8%)*, and PCS (-0.9%/0.0%) lost ground to the market on a market cap weighted basis. For the third quarter, wireless stocks iumped 22.7%/31.1%* versus gains in the S&P 400 of 6.0%, in the NASDAQ of 16.7%, and in the Dow of 3.2%. believe wireless stocks have clearly turned the corner. * (Market-cap. weighted/Price weighted).



Source: FactSet data

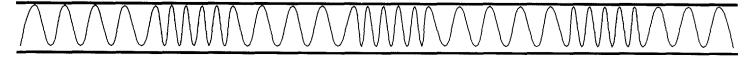
Company Performance: Mtel (MTEL—16 1/2,

not rated) moved up 17.3% for the week, capping a 94% run in 1997 based on favorable results from the enhanced messaging launch in April. Clearnet (CLNTF—17, rated Buy) advanced 13.8% as the company announced plans for 600 retail outlets for its PCS service when launched in October. CellularVision (CVUS—8 1/2, not rated) advanced 7.9% on news the company received expanded licenses from the FCC and will not have to bid on them at auction later this year.

Strategic: Winstar (WCII—17 3/8, not rated) (+1.5%) launched switched services in Dallas, Washington D.C., and Newark, and received authorization to operate as a CLEC in Kansas. USWest (USW—38 11/16, rated Hold by Guy Woodlief) (+2.3%) launches 10 MHz PCS service in Denver offering one number for home phone and portable. Sprint PCS opens 6,000 "Sprint Stores" in Radio Shacks nationwide. Mobilcom, a subsidiary of Nextel, awards \$40 million contract to Motorola (MOT—68 1/2, rated Buy by Luke Szymczak) (+3.0%) to build Mexico City iDEN network. Motorola also announced \$26 million contract with Nextel (NXTL—28 1/8, rated Buy) (-1.5%) International for iDEN infrastructure in Brazil. ICG (ICGX—19 5/8, not rated) (+7.9%) and ChoiceCom announced they will supplement their fiber-based CLEC networks with Advanced Radio's (AART—8 7/8, not rated) (+6.0%) wireless design. Commnet (CELS—34 15/16, rated Hold) (+1.5%) shareholders approve Blackstone merger.

Financial: PageNet (PAGE—12 9/16, rated Buy) (-0.5%) announced the write off of 415,000 pagers under a national reseller agreement. With the move, the company restated 1996 net income and EBITDA \$0.22 lower and 1H 1997 net income \$0.05 higher. Japan's Nippon Telegraph & Telephone Corp. (NTT—45, not rated) (-0.4%) will invest \$100 million in Associated Group's (AGRPA—67, not rated) (-3.9%) Teligent unit. Rogers Cantel (RCN—17 3/4, not rated) (-2.4%) prices US\$275 million in senior 2007 debt at 8.3% and US\$215 2007 debt at 8.8%. Palmer Wireless (PWIR—17 3/8, rated Hold) (0.0%) shareholders approved the merger with Price Communications.

Regulatory: The FCC offered four alternatives to C-block PCS bidders to mitigate debt burden: a) status quo—the make-no-changes approach; b) disaggregation—return of half of a bidder's licenses, with commensurate debt forgiveness and forfeiture of 50% of the deposit; c) amnesty—return all of the licenses for forgiveness of debt with forfeiture of the





Appendix 1. Spectral Shifts Data—Companies

NarrowBand (kHz)	Current Price 9/26/97	Last 5 Days* (% Chg)	Month- To-Date (% Chg)	Quarter- To-Date (% Chg)	Year- To-Date (% Chg)	Last 12 Mos. (% Chg)	From 52-Wk. Hi (% Chg)	Market Cap (\$ Mil.)	Net Debt (\$ Mil.)	EV/EBITDA (Latest Qtr. Ann.)
Pagin Arch Comm American Pag Metrocall Mtel Pronet PageNet PageMart	APGR APP MCLL MTEL PNET PAGE PMWI	\$8.38 \$2.00 \$7.38 \$16.50 \$6.25 \$12.56 \$9.81	(8.2) (15.8) 6.3 17.3 5.3 (0.5) 0.6	34.0 (15.8) 11.3 34.7 12.4 24.1	9.8 33.3 63.9 15.3 56.3 43.1 15.4	(10.7) (57.3) 47.0 94.1 42.9 (17.6) 48.1	(39.4) (65.2) 1.7 5.6 (16.7) (38.0) (3.1)	(40.7) (67.3) (7.8) (1.5) (31.5) (38.7) (4.3)	\$174.2 40.2 184.9 898.9 78.9 1,289.2 391.8	\$955.2 158.3 328.5 387.0 166.4 1,700.6 256.6	8.7 NM 7.6 29.6 8.0 10.0 26.6
BroadBand (MHz) Cellular Airtouch Comm Centennial Cellular CommNet Cellular Vanguard Cellular Palmer Wireless 360 Comm U.S. Cellular	ATI CYCL CELS VCELA PWIR XO USM	\$36.56 \$18.00 \$34.94 \$15.31 \$17.38 \$20.44 \$35.19	(0.7) (2.0) 1.5 6.5 0.0 (5.2) 5.8	8.1 13.4 (0.2) 4.7 0.0 11.2 16.3	33.0 13.4 0.5 12.4 3.0 19.3 18.8	44.8 48.5 25.3 (2.8) 65.5 (12.1) 26.2	31.8 34.6 17.4 (21.0) (2.8) (16.6) 14.4	(4.6) (5.3) (1.6) (21.0) (5.9) (21.0) 0.0	\$18,405.6 485.1 480.9 616.8 483.3 2,490.1 3,032.6	\$1,585.0 385.6 256.0 716.7 378.6 1,847.3 409.3	15.1 15.0 13.1 10.6 10.1 8.8 11.7
International Celi BCE Mobile Comm Millicom Intl. Cellular Rogers Cantel Vodafone Clearnet Orange	BCX MICC RCN VOD CLNT ORNGY	\$35.00 \$53.75 \$17.75 \$53.79 \$17.00 \$18.13	(5.4) 3.4 (2.4) 1.5 13.8 2.8	(1.9) 5.4 (10.7) 5.6 22.5 (1.0)	12.6 (6.3) 11.0 40.2	18.1 67.3 (8.4) 30.0 54.5 13.3	6.7 39.6 (10.7) 56.5 12.4 27.2	(7.0) (6.5) (26.8) (0.6) (4.2) (1.4)	\$2,427.3 2,587.6 1,667.2 16,492.6 8,316.8 4,342.9	\$391.0 661.3 1,351.3 1,119.5 120.8 1,205.5	9.4 62.6 9.5 6.9 NM NM
Fulfillment Servic Lightbridge SMR	LTBG	\$17.13	7.9	38.4	124.6	100.0	NA 50.0	7.4	\$250.7	(\$21.2)	
Nextel Geotek PCS Powertel Omnipoint Western Wireless Aerial	NXTL GOTK PTEL OMPT WWCA AERL	\$28.13 \$4.22 \$18.63 \$21.94 \$17.13 \$9.19	(1.5) (4.3) 0.0 (2.2) 1.5 0.7	12.2 (3.6) (2.0) 4.8 13.7 5.8	, ,	115.3 (40.8) 52.0 14.0 23.4 13.1	59.6 (51.1) (15.3) (15.6) 5.4 (8.1)	(5.1) (53.8) (16.3) (38.2) (10.5) (12.5)	\$6,808.0 278.8 \$501.2 1,131.3 1,199.3 657.1	\$3,727.3 192.4 \$335.8 1,140.3 1,048.7 313.7	NM NM NM NM NM
WideBand (GHz)											
Wireless Cable/M American Telecast CAI Wireless Heartland Peoples Choice Wireless One	ATEL CAWS HART PCTV WIRL	\$1.31 \$1.47 \$2.88 \$3.00 \$3.31	(4.5) 4.4 9.5 11.6 3.9	31.3 4.4 64.3 0.0 39.5	110.0 38.2 21.1 84.6 29.3	(77.2) 46.9 (78.1) (51.0) (50.0)	(87.0) (78.6) (88.0) (78.4) (77.5)	(88.7) (80.1) (88.7) (80.0) (78.3)	\$33.8 59.5 56.5 38.8 56.1	\$270.8 316.0 236.4 163.9 239.9	NM NM NM NM
LMDS Cellularvision USA Winstar Comm Associated Group Advanced Radio	CVUS WCII AGRPA ARTT	\$8.50 \$17.38 \$67.00 \$8.88	7.9 1.5 (3.9) 6.0	0.0 4.1 (7.9) 16.4	6.3 29.9 67.5 (1.4)	21.4 (17.3) 117.9 (21.1)	(15.0) 6.9 123.3 NA	(28.4) (30.2) (17.8) (46.2)	\$136.0 574.5 1,258.3 83.3	(\$3.5) 277.6 131.6 47.9	NM NM NM NM
Satellite Amer. Mob. Sat ComSat Orbital Sciences Globalstar Iridium	SKYC CQ ORBI GSTR IRIDF	\$10.00 \$23.44 \$23.13 \$49.50 \$43.31	31.1 (0.3) 11.4 1.0 (1.0)	6.6 27.5	(2.4) (1.6) 45.7 61.6 139.0		(30.4) 2.5 27.6 103.1 NA	(32.2) (17.8) (3.6) (1.5) (2.9)	\$251.4 1,151.5 746.2 1,516.3 5,883.4	\$202.7 631.4 84.3 300.9 806.9	NM 6.5 12.5 NM NM
S&P 40 NASDAQ Composite		1,105.33 1,682.24	(0.6) 0.1	4.5 6.0	6.0 16.7	27.1 30.3	36.3 37.0	(2.7) (1.2)			

Note: !=Single Best Idea; Reported data excludes pending acquisitions and other nonconsolidated assets Source: FactSet data; Prudential Securities Inc. estimates...



Appendix 2. Spectral Shifts Data—Indexes

	Current Price 9/26/97	Last 5 Days (% Chg)	Month- To-Date (% Chg)	Quarter- To-Date (% Chg)	Year- To-Date (% Chg)	Last 12 Mos. (% Chg)	From 52-Wk. HI (% Chg)	EV/EBITDA (Latest Qtr. Annualized)
Market Cap Weighted In	dexes*							
Narrowband	111.39	4.1	22.8	29.3	11.4	(25.6)	(25.6)	18.9
Broadband	135.13	0.1	6.6	21.7	35.1	29.9	(1.0)	
Cellular	130.07	0.3	6.0	19.0	30.1	30.7	(1.1)	NM
Domestic Cellular	132.55	(0.5)	8.8	28.3	32.6	20.5	(2.7)	13.8
International Celluar/PCS	128.18	1.3	3.7	11.8	28.2	41.3	0.0	NM
SMR	194.77	(1.6)	11.5	43.3	94.8	46.3	(4.5)) NM
PCS	121.96	(0.9)	4.3	25.3	22.0	(12.4)	(22.9)	NM
Wideband	106.63	3.6	15.2	32.4	6.6	(5.9)	(7.8)) NM
MMDS	38.36	5.2	24.8	43.7	(61.6)	(83.0)	(84.0)	12.6
Satellite	127.05	3.5	16.9	35.2	27.1	37.1	0.0	3.9
LMDS	114.99	0.2	(0.4)	34.8	15.0	15.5	(4.1)	MM I
Wireless	129.97	0.5	7.6	22.7	30.0	20.2	(0.5)) NM
Wireline	113.15	1.2	8.7	3.7	13.2	22.6	0.0	NA
Average Weighted Index	es*							
Narrowband	135.54	(1.7)	15.4	40.0	35.5	(19.0)	(19.0)	30.8
Broadband	134.45	0.7	5.7	16.3	34.4	16.0	(0.4) NM
Cellular	129.65	0.4	4.2	12.8	29.6	19.4	(0.3)	3.8
Domestic Cellular	132.16	8.0	7.7	15.2	32.2	14.1	(0.4)	12.1
International Celluar/PCS	124.52	(0.0)	(0.6)	9.2	24.5	25.1	(2.3)) NM
SMR	122.52	(2.8)	4.6	9.5	22.5	(2.5)	(7.5)) NM
PCS	137.66	0.0	6.0	22.2	37.7	3.7	(5.6)) NM
Wideband	106.63	3.6	15.2	32.4	6.6	(5.9)		
MMDS	86.97	5.7	33.5	81.2	(13.0)			
Satellite/38 GHz	127.05	3.5	16.9	35.2	27.1	37.1	0.0	
LMDS	131.19	3.5	4.5	27.5	31.2	25.7	0.0	
Wireless	130.73	2.1	12.3	31.1	30.7	(1.2)	(1.2)	8.1
Wireline	113.15	1.2	8.7	3.7	13.2	22.6	0.0	NA
S&P 400	1,105.33	(0.6)		6.0	27.1	36.3	(2.7)	
NASDAQ Composite	1,682.24	0.1	6.0	16.7	30.3	37.0	(1.2))
* (12/96=100)								
Source: FactSet data								

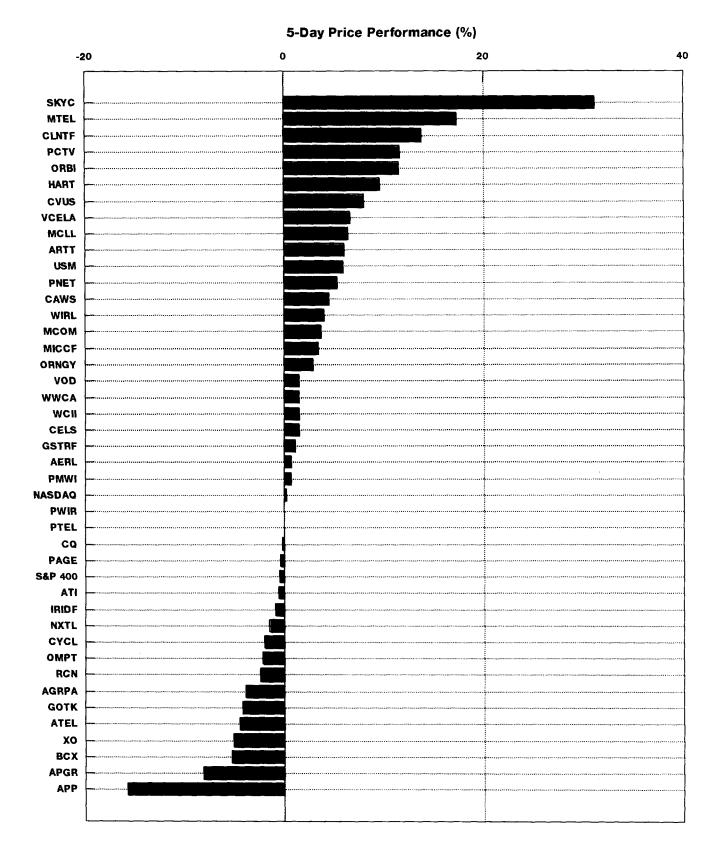
deposit already made; d) prepayment—purchase at bid value any or all licenses outstanding (as long as all BTAs in an MTA are purchased) while forfeiting 30% of the down payment if it is used for payment.

Technology: AT&T Wireless Services (T—45 7/16, rated Hold by Guy Woodlief) (+3.3%) reportedly plans to relaunch its PocketNet Cellular Digital Packet Data (CDPD) wireless internet access product next month with an unlimited-use plan.

What To Look For: Monday November 10th is Wireless Telecom Day at Prudential Hi-Tech Conference.



Appendix 3. Price Performance Of Wireless Stocks



Source: FactSet data

Report 7	Heading	Тур	Date	Pages
Sparter	Magnetic Authorities (Magnetic Control of Co	Visit 100 100 100 100 100 100 100 100 100 10	07/28/97	6
Air Court	The Table war and tragal loved to the law	The resemble that	07/29/97	8
Paging Xi	indone iki MililiaA ili ah akabANE shiftsita ili dave ili ala eve e	w. Trans Hospato	07/30/97	6
And June 1997	stational for a motor were expectations.	John dany opdiate	07/30/97	6
Pamer 7	tame toports in it, with expectations	Joh bany Update	07/30/97	8
Lightbrid :	trufitability growth the new contracts highlight 20.	Company Update	07/30/97	8
Clearnet	CLNTT raises CSS in the in new debt and equity in alsing target.	Company Update	08/01/97	8
Spectral and	Wireless score—new entrants 7 incumbents 10.	Industry Update	08/04/97	6
Metrocui	Metrocall reports strong results for the second quarte .	Company Update	08/06/97	6
Paging Network	Jack Frazee named Chairman, President, and CEC	Company Update	08/06/97	6
Wireless 11	Stormy weather rains on results while future may be sunnier	Company Update	08/07/97	6
ProNet	Second quarter weighted toward indirect channels	Company Update	08/08/97	6
Spectral State	Ten Cents Per Minute Is The Future Of Wireless	Industry Update	08/11/97	6
Nextel	NXTL's ARPU is on the rise while costs are trewnding down	Company Update	08/12/97	8
Clearnet	Clearnet exceeds our sub and ARPU numbers	Company Update	08/15/97	8
Metrocal:	Merger with ProNet highlights synergies	Company Update	08/15/97	6
Paging Network	Resignation of CFO lets Frazee hand pick management	Company Update	08/18/97	6
Spectral Shifts	Wireless wins the wild west of the information age	Industry Update	08/18/97	6
Broadband Wireless	Second quarter Cellular/PCS results are in	Industry Update	08/21/97	12
Spectral Shifts	PCS handset fall fashion preview	Industry Update	08/25/97	6
Spectral Snifts	Where's all that usage coming from	Industry Update	09/02/97	6
Wireless One	WIRL alligns with DirecTV to go after the MDU market	Company Update	09/04/97	6
Paging Network	Visit with PageNet CEO sheds light on new priorities	Company Update	09/08/97	6
Lightbridge Inc.	Increasing PCS activations could provide upside for LTBG	Company Update	09/08/97	8
Clearnet	Demand for Clearnet's MiKe looks high	Company Update	09/08/97	8
Spectral Shifts	800 model is the future of universal service and wireless industry	Industry Update	09/08/97	6
Spectral Shifts	Wireless cloud part I: one of the most powerful booms ever	Industry Update	09/15/97	6
Paging Network	PAGE announces cross-marketing agreement with Mtel	Company Update	09/17/97	6
Spectral Shifts	Recommendations for the next FCC commissioners	Industry Update	09/22/97	6

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